

[Name of document] ABSTRACT

[Abstract]

[Problem] Reducing rotational oscillation of a polygon mirror during high-speed rotation.

5 [Solving means] A stator 24 is fixed to a protrusion 21a of a base 21, and a fixed shaft 25 is fixed in a hole 21b of the protrusion. A housing 27 is rotatably mounted on ball bearings 26 further mounted on the fixed shaft 25. A polygon mirror 28 is fixed to an upper portion of the housing 27, and a rotor yoke 31 is fixed to a lower portion of the housing. A rotor
10 magnet 32 is fixed to the rotor yoke 31 so as to be opposed to the stator core 22. The housing 27, polygon mirror 28, rotor yoke 31 and rotor magnet 32 constitute a rotor assembly 33. A balancing groove 30 is defined in a boundary between the housing 27 and the polygon mirror 28. The bottom of the groove 30 is substantially coplanar with a plane
15 involving the center of gravity G of the rotor assembly 33.

[Selected figure] FIG. 1

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5 [Patent applicant]

[Identification number] 000003078

[Address/Residence] 72 Horikawa-cho, Saiwai-ku, Kawasaki
Kanagawa

[Name] KABUSHIKI KAISHA TOSHIBA

10 [Agent] Petitioner

[Identification number] 100071135

[Address/Residence] Nissan Seimeikan Building
6-15 Sakae 4-chome, Naka-ku, Nagoya, Aichi

[Name] Tsuyoshi Sato

INFORMATION ABOUT RECORD OF APPLICANT

Identification number [000003078]

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Address: 72 Horikawa-cho, Saiwai-ku, Kawasaki
Kanagawa

Name: KABUSHIKI KAISHA TOSHIBA